

**UNCRATING/INSTALLATION
INSTRUCTIONS**

**Reliance® 1024/1034
Laboratory Glassware Dryers**

**(10/18/01)
Rev. 4**

P-122990-608

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A WORD FROM STERIS CORPORATION

Follow each step in the order presented in these instructions. Open the carton carefully as it contains expensive drying equipment. If after uncrating the equipment you find any damage (no matter how slight), show it to your supervisor.

A listing of the safety precautions to be observed when uncrating and installing this dryer can be found on Section 1 of these instructions. Do not begin uncrating/installing this equipment until you have become familiar with this information.

To properly install this unit, you will need the Equipment Drawing (previously furnished), showing all utility service and space requirements. If drawings cannot be located, replacement copies may be obtained by writing, wiring, faxing, or telephoning STERIS giving the serial, equipment and model numbers of your dryer.

If STERIS supervision is desired for installing this equipment, contact the STERIS Regional Office nearest you.

Indications for Use

The Reliance® 1024/1034 Laboratory Glassware Dryers are designed for efficient drying laboratory glassware. These dryers are specifically designed to only process goods as outlined in this manual. If there is any doubt about a specific material or product, contact the manufacturer of the product for the recommended processing technique.

Advisory

Any alteration of this equipment not authorized or performed by STERIS Engineering Service which could affect its operation will void the warranty, could adversely affect sterilization efficacy, could violate federal, state and local regulations and jeopardize your insurance coverage.

Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. This manual contains maintenance schedules and procedures which should be followed for satisfactory equipment performance.

You are encouraged to contact STERIS concerning our comprehensive Preventive Maintenance Agreement. Under the terms of this agreement, preventive maintenance, adjustments, and replacement of worn parts are done on a scheduled basis to assure equipment performance at peak capability and to help avoid untimely or costly interruptions. STERIS maintains a nationwide

staff of well equipped, factory-trained technicians to provide this service, as well as expert repair services. Please contact your STERIS representative for details.

Sales and Service Information:

STERIS Corporation
5960 Heisley Road
Mentor, Ohio 44060
Tel.: 440 354 2600
Fax : 440 639 8199

Technical Assistance:

STERIS Engineering
Services
2424 West 23rd Street
Erie, PA 16506
Tel.: 814 452 3100
Fax: 814 870 8400

Manufacturing Plant:

STERIS Canada Corporation
415, rue des Alleghanys
Beauport (Quebec)
Canada G1C 4N4
Tel.: 418 664 1549
Fax: 418 664 0188

Web Site: www.steris.com

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LISTING OF WARNINGS, CAUTIONS AND SYMBOLS

1

The following is a listing of the safety precautions which must be observed when uncrating, installing and operating this equipment. WARNINGS indicate the potential for danger to personnel, and CAUTIONS indicate the potential for damage to equipment. These precautions are repeated in whole or in part, throughout the instructions.

WARNING - PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD:



When moving the unit, use a forklift. Do not use door(s) or door handle(s) for lifting.

WARNING - LACERATION/EYE INJURY HAZARD:



When removing bands, wear eye protection and always use a tool specifically designed to cut the bands. The bands used to secure this carton can cause personal injury when cut and tension is released.

WARNING - LACERATION HAZARD:



When removing bolts or nails, wear gloves to protect your hands.

WARNING - BURN HAZARD:



When blowing out utility supply lines, wear gloves, face shield and protective clothing.







CAUTION - POSSIBLE EQUIPMENT DAMAGE:



When removing adhesives from stainless steel, use a solvent specially formulated for that purpose. Rub in a back-and-forth motion (in same direction as surface grain). Solvent rubbed in a circular motion or applied with a wire brush or steel wool on door and chamber assemblies can be harmful to stainless steel. Do not use solvents on painted surfaces.

IMPORTANT: Be sure to check the Occupational Health and Safety Act, as well as local electric and plumbing codes, for any special requirements that may pertain to installation of this unit.

Symbols

	Tip'N Tell Indicator
	Attention, Consult Manual for Further Instructions
	This Way Up
	Do Not Stack
	Fragile
	Keep Dry
A	Amperage Rating of the Unit
V	Voltage Rating of the Unit
~	Alternating Current
kW	Power Rating of the Unit
Hz	Frequency of the Unit
φ	Phase of the Unit

Open Crate



WARNING — PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD: When moving unit, use a forklift. Do not use door or door handle for lifting.



WARNING — LACERATION/EYE INJURY HAZARD: When removing bands, wear eye protection and always use a tool specifically designed to cut the bands. The bands used to secure this carton can cause personal injury when cut and tension is released.

NOTE: This equipment weighs approximately 500 lbs (225 kg). Use a forklift to move equipment.

NOTE: Uncrate on level floor as close to installation site as possible.

1. Position unit to open cardboard carton from the top. Provide a clear work area on all sides.
2. Carefully cut and remove bands from crate (see Figure 2-1).
3. Discard bands before continuing.
4. Lift off cardboard top.
5. Remove nails attaching cardboard to skid.
6. Pull cardboard carton away from unit. Discard carton.

Move Dryer and Remove Skid

1. With dryer still mounted on skid, use a forklift to move dryer to installation site.
2. Carefully cut and remove bands securing dryer to skid.
3. Discard bands before continuing.
4. Remove and discard cardboard corners and polystyrene wrap from around unit.
5. Remove six screws attaching top access panel to unit. Lift panel away from unit.
6. Check tip indicator, located inside dryer service compartment (see Figure 2-2). Tip indicator contains a blue compound at the bottom of the indicator. If unit has been tipped, residue from the blue compound will be found higher up in the indicator.

If unit was tipped, notify STERIS regional office. A service technician will review the equipment and determine if unit was damaged.

7. Remove and discard Styrofoam block and skid from under dryer.

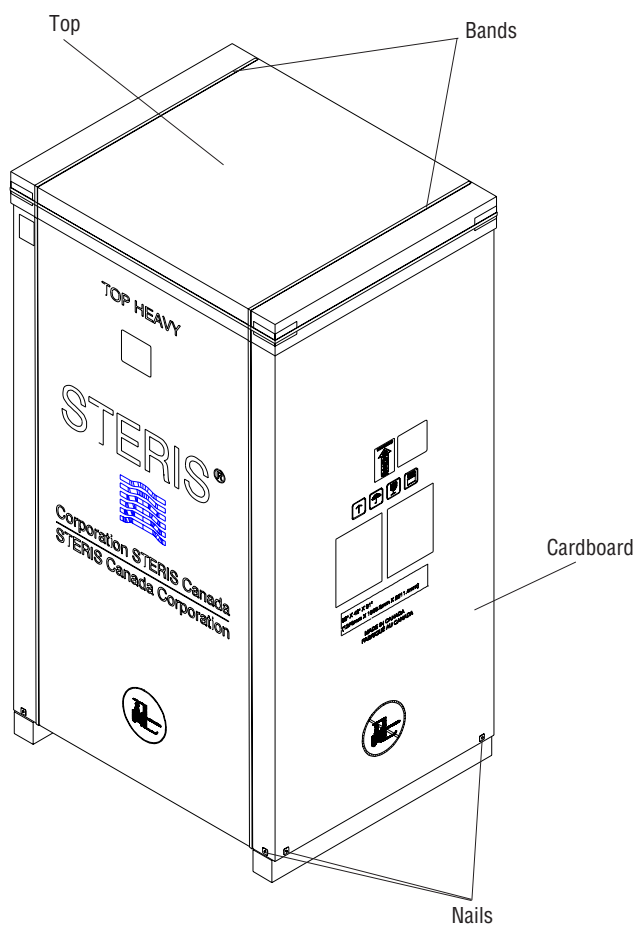


Figure 2-1. Crate

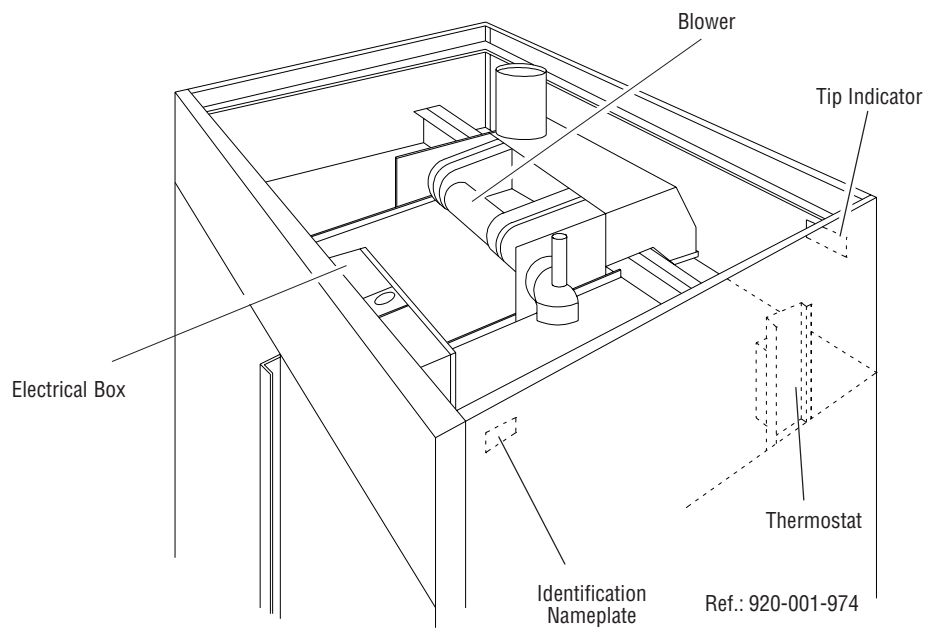


Figure 2-2. Check Tip Indicator

Prepare Dryer for Installation

1. Remove all tape from dryer.
2. Check that filter is correctly installed in top access panel. Filter should rest in panel cutout, under tabs (see Figure 2-3).
3. Check that filter clip is positioned directly over filter. If necessary, loosen wing nut, move filter clip over filter and tighten wing nut.
4. Attach top access panel to unit with screws previously removed.
5. Open chamber door(s). Remove and unwrap shelves, guide tabs and Operator Manual.
6. Make sure operator receives Operator Manual.
7. Insert guide tabs into shelf support strips in chamber (see Figure 2-4).
8. Place shelves on guide tabs.
9. Close chamber door(s).
10. Remove all packing and tape from control panel.
11. Discard all packing material removed during uncrating procedures.

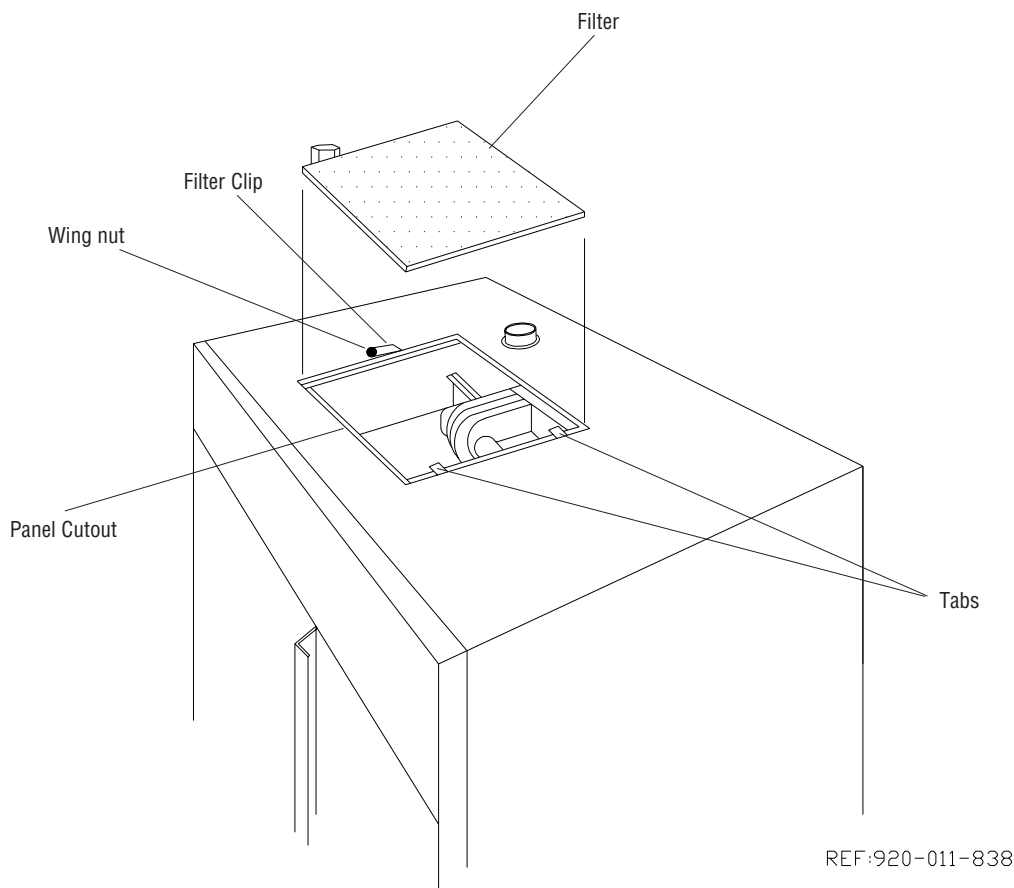


Figure 2-3. Check Filter Installation

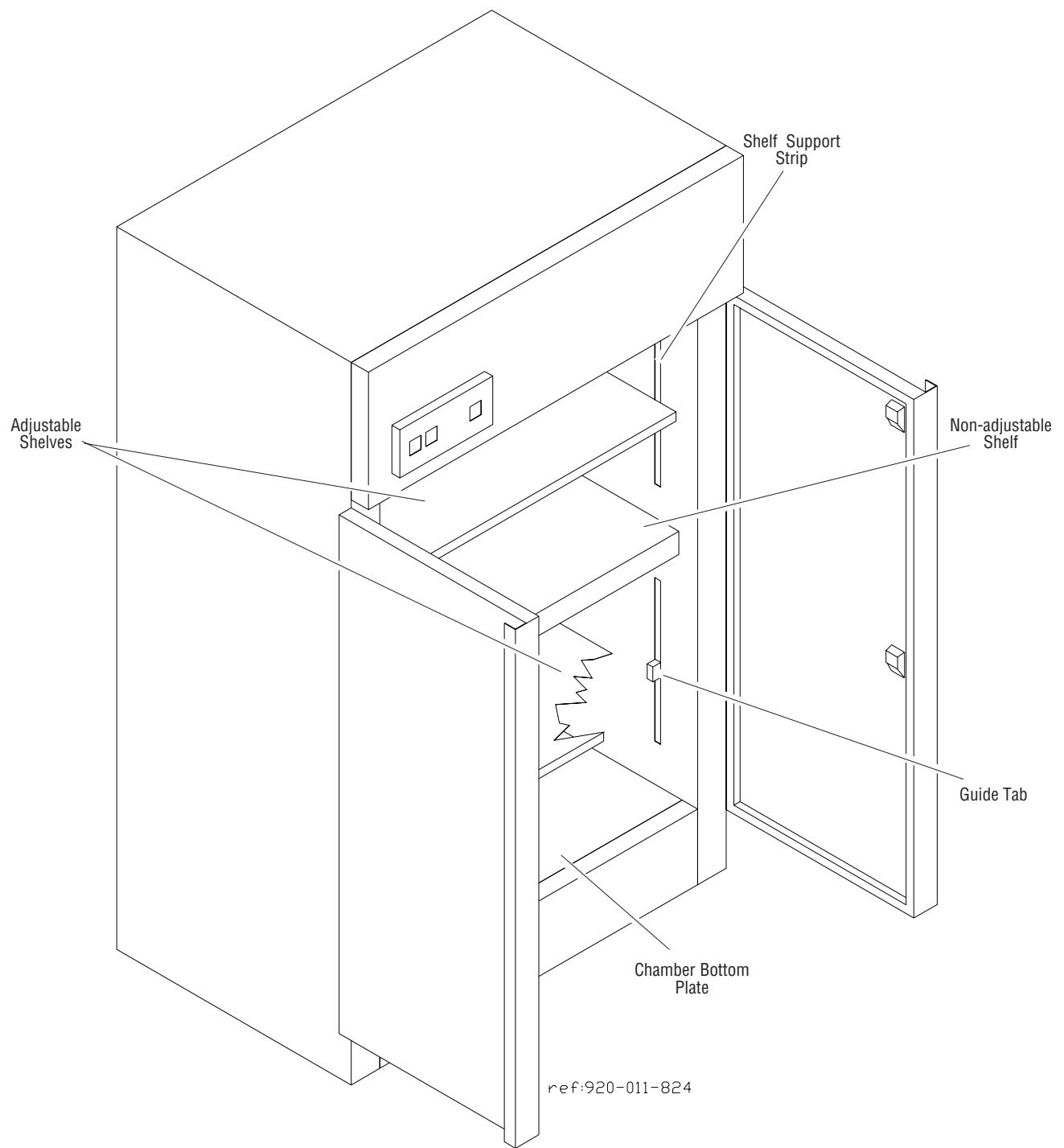


Figure 2-4. Drying Chamber

Before Operating Equipment

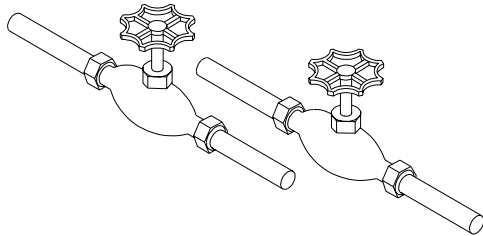


Figure 3-1. Shutoff Valves

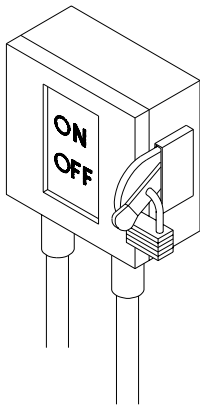


Figure 3-2. Disconnect Switch

1. Review installation requirements:

a. Clearance — Clearance space shown on Equipment Drawing is necessary for easy installation and proper operation and maintenance of dryer.

b. Utility service lines:

- If unit is equipped with steam option, shutoff valve (not by STERIS) should be installed on steam line near dryer (see Figure 3-1). Shutoff valve must be capable of being locked in OFF position.
- Disconnect switch (not by STERIS) should be installed in electric supply line near dryer (see Figure 3-2). Disconnect switch must be capable of being locked in the OFF position only.
- If this machine is installed next to other equipment, disconnect switch should be located so that service can be shut off to one piece of equipment at a time.
- Utility service requirements are shown on Equipment Drawing. This machine requires either 208 volts, 60 Hz, 3-phase, 4-wire or 480 volts, 60 Hz, 3-phase, 3-wire. Check Equipment Drawing or Identification Plate (located inside dryer service compartment, see Figure 2-2) for proper voltage.

2. Place dryer, as shown on Equipment Drawing, in correct relation to building supply line. If unit is not at installation site, refer to Uncrating Instructions (Section 2) for proper moving instructions.

NOTE: Floor under unit should be level. If necessary, add shims (not by STERIS) to level unit.

Connect Utilities

1. ELECTRIC — Connect building electrical supply to dryer. Verify tight electrical connections.
2. STEAM — Blow out the building steam supply line to remove chips, scale, etc. Connect line to dryer. Steam line is required for steam heater option only.
3. VENTILATION — Connect dryer ventilation to a dedicated building exhaust.
4. If unit is equipped with steam option, open building supply valve and check for leaks. Correct if necessary.

Cleanup



CAUTION: When removing adhesives from stainless steel, use a solvent specially formulated for that purpose. Rub in a back-and-forth motion (in same direction as surface grain). Solvent rubbed in a circular motion or applied with a wire brush or steel wool on door and chamber assemblies can be harmful to stainless steel. Do not use solvents on painted surfaces.

1. Remove any adhesive found on panels and inside chamber with a suitable solvent (such as Stoddard solution). Keep solvents away from all painted surfaces or damage may result.
2. Inspect work area to be sure all materials used during installation have been removed.

THIS COMPLETES THE INSTALLATION. Contact your local STERIS representative for a demonstration on how to operate the equipment. Refer to *Operator Manual (P-122990-607)* for operating procedures.

1. Open chamber door(s).
2. Check that drying chamber is empty and all packing material has been removed.
3. If unit is equipped with manifold drying option, verify that manifold connectors are installed.
4. Close door and press START pushbutton (see Figure 4-1).
5. Check that In Use indicator light comes on.
6. Verify blower operates as soon as START pushbutton is pressed.
7. Press STOP pushbutton. Check that In Use indicator light goes off.
8. Open door(s) and allow unit to cool.

DRYER IS NOW READY FOR NORMAL OPERATION.

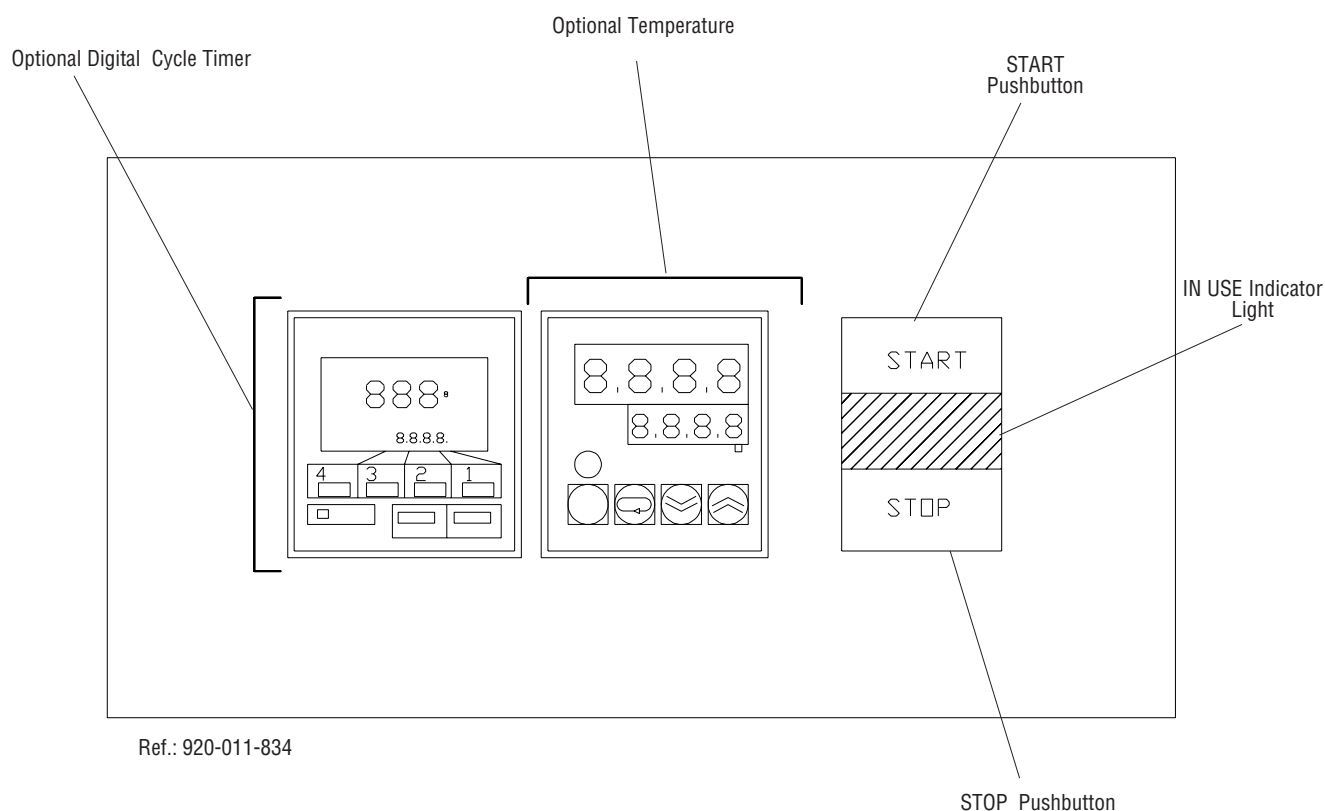


Figure 4-1. Control Panel